3727&3728

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FORM 504 U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE			
DESCRIPTIVE REPORT			
Type of Survey HYDROGRAPHIC			
Field No. — Office No. H-3727 & 3728			
LOCALITY			
StateOREGON			
General locality YAQUINA BAY AND RIVER			
Locality			
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194/ .14			
CHIEF OF PARTY			
J. W. Maupin			
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DATEAPRIL 28, 1915			

POST-OFFICE ADDRESS:

310 Custem House, San Francisco, California,

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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

San Francisco, California, April 10th, 1915.

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SHEETS 1 AND 2

YAQUINA BAY AND YAQUINA RIVER. OREGON

AUGUST-NOVEMBER 1914

JOHN W. MAUPIN

Chief of Party.

H. 3727.

The soundings seem to be well spaced and in sufficient number with exception of unfinished areas mentioned in the notes.

Sheet examined in Div. of Hyd'y & Top'y.

shore, and up the Bay, on the inside, to Cequille Point. On the cutside, this area extends two miles south and three miles north of the entrance to the Bay. The soundings on sheet No. 2 were carried from Coquille Point to the town of Toledo. The soundings were carried very close in to shore along the River.

2. General Remarks: Sheet No. 2 is considered to be complete as far as the soundings ge. Sheet No. 1 is not considered complete, as the Party was ordered to close the season's work before same was finished on account of lack of funds. It was intended to do some more work on what is locally called the South Spit, where it is only possible to werk under very favorable conditions. As there was no time when further work could be safely donethere, about a half dozen soundings are estimated (on the boat sheet) and are believed to be within a foot of being correct.

There is a reported depth of 4 ft at the place indicated on the Boat Sheet, which is, no doubt, a rock, as the same depth is shown at about the same place on published Chart No. 6057. It was also intended to do some more work on the outside reefs. The depths on these roofs are believed to be the same as shown on the old Chart according to the soundings which were taken and to the local authorities.

- 3. The Bar: At the time the work was being done, a maximum of 12 ft. could be carried over the Bar at M.L.L.W. The Bar breaks heavily in a moderate S. W. swell. The best time to cross the Bar is, of course, on the flood shortly before high water, as the swells are decreased considerably when running with the current. It is reported, by local authorities, that a four foot and sometimes as much as a five foot change has been known to take place in the depth on the Bar during a blow.
- 4. Sailing Directions: Owing to the shifting nature of the shoals and bar, and the short distances, no compass courses are given here. It is believed that a local knowledge, or at least some previous local, up to date, information is advisable before attempting to cross the Bar. The Captain of the Life Saving Station (located in old unused L. H. tower at Newport) will usually send out the power beat to pilet strangers across the Bar. When crossing the Bar, the buoys may be followed, and when heading in, it is thought best to head straight between the jetties afterleaving black can busy No. 5, and pass about 150 meters north of the Fairway buoy. By doing this, the swell will be directly from astern and help to lift the vessel over the Bar, and also prevent yawing and broaching to. The eld range lights, for entering the Bay, are no longer used, as they would take a vessel over very shoal water. The courses up the Bay and River to Toledo are various, and the buoys and ranges may be followed with the aid of the chart.
- 5. River Channel and Shoals; A ten foot channel up as far as Toledo is usually

claimed by the local residents of Yaquina Bay, after the recent dredging By the U.S. Engineers. There are several places, however, where the lead showed only nine feet at M.L.L.W. and the channel is evidently filling in. to some slight extent. This is true of the channel on Range No. 1, also about a half mile west of this channel. The most conspicuous shoal in the River, extends from the point near triangulation signal "Spit", out into the middle of the River, and about a half mile downstream. There are many other shoals along the River, and it is quite shallow in most places. In the Bay and along the River the mid flats extend out close to the channel. In the upper part of the River, a number of shoals were formed when the recent dredging was done. 6. Currents: Through lack of time, current observations were only taken during the ebb tide on one day. The range of tide was a little more than half of the maximum on this day, and a current of nearly three knots was found. The current is mostly tidal, but there is some fresh water flow, which causes the current at ebb to be stronger than at fleed. The current sets fair with the channel, and responds very closely with the turn of the tides. 7. Miscellaneous: Red spar busy No. 8 should be on the end of the sand spit about 330 meters south (true) of triangulation signal"Dike; as it was about 215 meters out of position when lecated. The following is quoted from a letter dated June 19th, 1914, sent to the Chief of Party by the Lighthouse Inspector at Portland, Oregen.... "For your information it is stated that the positions of the Outside Bar Whistling Buoy "Y" and Reef South End Buoy, 1, as shown on the chart of Yaquina Bay are correct, that is to say these are the official positions of these buoys although at the present time neither one may be exactly where it belongs". There was a red spar buey near Mc Lanes Point, but it was not in position when the buoys were located.

Respectfully submitted, Maupie; . Chief of Party.

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310 Custem House, San Francisco, California,

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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

San Francisco, California,
April 10th, 1915.

DESCRIPTIVE REPORT TO ACCOMPANY
HYDROGRAPHIC SHEETS 1 AND 2
YAQUINA BAY AND YAQUINA RIVER, OREGON
AUGUST-NOVEMBER 1914
JOHN W. MAUPIN
Chief of Party.

1. Limits: On sheet No.1, the area sounded over, extends two miles off shore, and up the Bay, on the inside, to Coquille Point. On the entside, this area extends twe miles south and three miles north of the entrance to the Bay. The soundings on sheet No. 2 were carried from Coquille Point to the town of Toledo. The soundings were carried very close in to shore along the River.

2. General Remarks: Sheet No. 2 is considered to be complete as far as the soundings go. Sheet No. 1 is not considered complete, as the Party was ordered to close the season's work before same was finished on account of lack of funds. It was intended to do some more work on what is locally called the South Spit, where it is only possible to work under very favorable conditions. As there was no time when further work could be safely donethere, about a half dozen soundings are estimated (on the boat sheet) and are believed to be within a foot of being correct.

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Respectfully submitted.

Show W. Maukin Chief of Party.

HYDROGRAPHIC SHEET 3727

Yaquina Bay and River, Oregon, by Assistant J.W. Maupin in 1914.



CHART CONSTRUCTION

TIDES

Mean lower low water,	or .	Newport, Ft.
plane of reference	on staff	3.1
Lowest tide observed	и и	Q.5
Highest " "	n n	13.7
Mean range of tide		6,1

L. P. S.

HYDROGRAPHIC SHEET 3728

Yaquina Bay and River, Oregon, by Assistant J. W. Maupin in 1914.



TIDES

THART CO	(STRUCTIO	ŧ
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	Newport	Toledo, Origina
Mean lower low water, or plane of reference on staff	f 3.1	4.9
Lowest tide observed " "	0.5	4,4
Highest " " " "	13.7	15.9
Mean range of tide	6.1	6.1

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Hydrographic Sheet No. 3727. Jaquina Bay and Siner. Oregow. Pasitions platted by field party and taken as Dorrect although Verified many resifications were made When necessary to locate position or where it appeared that errors were possible. No errors noted. Soundings pencil platted in office by asst French and found dorrect except on cross lines when in many lases the shoulest somaings were not platted, The few errors found were lornated In places the lines are so closely non that all soundings Could not be platted but it has been endeovered to plat Those which would show, as far as possible Conditions existing, In this Comertion attention is Called to marginal note suggesting that the ground between the fetties bu platted on a larger scale, While such would better show conditions it does not apper advisable. Utention is also uncled to the suggestion of field porty That additional work bu done on the South Spit. This appears advisable. The estimated sometings on this spit refered to from boat sheet are platted in pencil a general composisson of this sheet and sheet 998 of 1868 + 1888 indicates such Changes in this locality that an attempt to Combine the sounding of the three sheets appears useless therefore A has not been attempted. Somango platted in fast

Dec 8. 1915

Hydrographie Sheet No. 3728. Jaquina River. Gregon.

Positions plotted by the field party and have been taken as correct except where necessary to verify to locate position and line. When verified no orrors were found.

Soundings platted in office by asst. French and found cornel lakept on crossings where in many cases the shoolest sounding was not platted

The field work can be considered good and appears to develop the Channel and shouls closely.

No trouble was found in the records which can be louridered good.

Somdings platted in feet.

J. D. Torrey Dec 9. 10